

What is claimed is:

1. A database of faceprint data corresponding to detected face regions within images acquired with an image acquisition device and digitally-embedded within one or more digital storage media, comprising:

(a) an image data component including acquired digital image data including content data and unique identifiers corresponding to individual acquired digital images or face regions therein, or both;

(b) an identity data component including an identification listing of known identities to which identified face regions detected within the image data have been determined to correspond; and

(c) a face recognition data component, comprising for an individual known identity:

(i) an appearance table including one or more identity entries for the known identity;

(ii) one or more identity tables corresponding to the one or more identity entries in the appearance table; and

(iii) one or more face class tables corresponding to one or more face class entries of the one or more identity tables, wherein each face class table comprises one or more face print image entries corresponding to faceprints determined from normalized face regions identified within the acquired digital image.

2. The database of claim 1, wherein the image data component further comprises an image list of the acquired digital image data.

3. The database of claim 2, wherein at least one group of image data comprises a face region list including one or more entries each corresponding to an identified face candidate region within an acquired digital image.

4. The database of claim 3, the face region list further including one or more links, corresponding to the one or more entries, to one or more known identities within the identification listing of the identity data component.
5. The database of claim 2, wherein the image data component further comprises multiple tables of image classification categories to which the image data are determined to belong.
6. The database of claim 5, wherein the image data component further comprises a set of database links to the tables of image classification categories.
7. The database of claim 1, wherein the known identities correspond to handles identifying a known person.
8. The database of claim 1, wherein the identity data component further comprises database links to face recognition data of the face recognition component.
9. The database of claim 1, wherein the identity data component further comprises one or more database links to personal data associated with one or more known identities.
10. The database of claim 9, wherein the identity data component comprises a table of personal data associated with a known identity.
11. The database of claim 10, wherein the identity data component further comprises a set of links to a relationship list or a group membership list or both.
12. The database of claim 1, wherein each identity table comprises one or more face class entries each defined by values of one or more face classifier parameters.
13. The database of claim 12, wherein at least two identity entries are characterized separately due to at least one distinguishing appearance characteristic.

14. The database of claim 13, wherein the appearance characteristic is distinguished as determined from a sufficient difference in value of at least one face classifier parameter between faceprints and associated normalized face regions determined to correspond to the same known identity, or based on user input, or both

15. The database of claim 1, wherein the appearance table comprises a list of links to one or more identity tables associated with distinct appearances determined for the known identity.

16. The database of claim 15, wherein the one or more identity tables further comprise one or more links corresponding to the one or more face class tables.

17. A database of faceprint data corresponding to detected face regions within images acquired with an image acquisition device and digitally-embedded within one or more digital storage media, comprising:

(a) an image data component including acquired digital image, or a pointer to the location of said image, and additional data associated with said image including content data and unique identifiers corresponding to the acquired digital images or face regions therein, or both, and wherein the image data component further comprises an image list of the acquired digital image data;

(b) an identity data component including an identification listing of known identities to which identified face regions detected within the image data have been determined to correspond; and

(c) a face recognition data component, comprising for an individual known identity:

- (i) one or more identity tables corresponding to one or more identity entries; and
- (ii) one or more face class tables corresponding to one or more face class entries of the one or more identity tables, wherein each face class table comprises one or more faceprint entries corresponding to normalized face regions determined from the acquired digital image.

18. The database of claim 17, wherein the one or more groups of image data further include image metadata including acquisition device specific information or anthropometrical

information associated with conditions of acquisition or normalization, or both, of a face region corresponding to a group of image data and its associated parent image.

19. The database of claim 18, wherein the image metadata information comprises said focal length of a lens coupled with a digital camera at time of image acquisition, focusing distance of the lens at time of acquisition, or effective digital camera sensor size, or combinations thereof.

20. The database of claim 17, wherein the one or more image data groups further include additional image data associated with circumstances of acquisition of a parent image and associated face region corresponding to a group of image data.

21. The database of claim 20, the circumstances comprising location of image acquisition, date and time of image acquisition, type of image acquisition device, or any post-capture image processing including red eye correction or luminance correction, or combinations thereof.

22. The database of claim 17, wherein at least one group of image data comprises a face region list including one or more entries each corresponding to an identified face candidate region within an acquired digital image.

23. The database of claim 22, the face region list further including one or more links, corresponding to the one or more entries, to one or more known identities within the identification listing of the identity data component.

24. The database of claim 17, wherein the image data component further comprises multiple tables of image classification categories to which the image data are determined to belong.

25. The database of claim 24, wherein the image data component further comprises a set of database links to the tables of image classification categories.

26. The database of claim 17, wherein the known identities correspond to handles identifying a known person.

27. The database of claim 17, wherein the identity data component further comprises database links to face recognition data of the face recognition component.

28. The database of claim 17, wherein the identity data component further comprises one or more database links to personal data associated with one or more known identities.

29. The database of claim 17, wherein the identity data component comprises a table of personal data associated with a known identity.

30. The database of claim 29, wherein the personal data comprises full name, one or more addresses, one or more phone numbers, one or more email addresses, or one or more web addresses, or combinations thereof.

31. The database of claim 29, wherein the identity data component further comprises a set of links to a relationship list or a group membership list or both.

32. The database of claim 31, wherein the relationship list comprises data on relationships between the known identity and other identities named within the database, and wherein the group membership list comprises data on grouping of known identities based on family ties, hobbies, interests, group memberships, interpersonal relationships, or combinations thereof.

33. The database of claim 17, wherein each identity table comprises one or more face class entries each defined by values of one or more face classifier parameters.

34. A database of face print image data corresponding to detected face regions within images acquired with an image acquisition device and digitally-embedded within one or more digital storage media, comprising:

(a) an image data component including acquired digital image data including content data and unique identifiers corresponding to individual acquired digital images or face regions therein, or both;

(b) an identity data component including an identification listing of known identities to which identified face regions detected within the image data have been determined to correspond; and

(c) a face recognition data component, comprising for an individual known identity:

(i) one or more identity tables corresponding to one or more identities, wherein each identity table comprises one or more face class entries each defined by values of one or more face classifier parameters; and

(ii) one or more face class tables corresponding to the one or more face class entries of the one or more identity tables, wherein each face class table comprises one or more face print image entries corresponding to faceprints from the acquired digital image data.

35. The database of claim 34, wherein the image data component further comprises an image list of the acquired digital image data.

36. The database of claim 34, wherein the known identities correspond to handles identifying a known person.

37. The database of claim 34, wherein the identity data component further comprises database links to face recognition data of the face recognition component.

38. The database of claim 34, wherein the identity data component further comprises one or more database links to personal data associated with one or more known identities.

39. The database of claim 34, wherein the identity data component comprises a table of personal data associated with a known identity.

40. The database of claim 39, wherein the personal data comprises full name, one or more addresses, one or more phone numbers, one or more email addresses, or one or more web addresses, or combinations thereof.

41. The database of claim 39, wherein the identity data component further comprises a set of links to a relationship list or a group membership list or both.

42. The database of claim 41, wherein the relationship list comprises data on relationships between the known identity and other identities named within the database, and wherein the group membership list comprises data on grouping of known identities based on family ties, hobbies, interests, group memberships, interpersonal relationships, or combinations thereof.

43. The database of claim 34, wherein at least two identity entries are characterized separately due to at least one distinguishing appearance characteristic.

44. The database of claim 43, wherein the appearance characteristic is distinguished as determined from a sufficient difference in value of at least one face classifier parameter between normalized faceprints determined to correspond to the same known identity, or based on user input, or both

45. The database of claim 34, wherein the appearance table comprises a list of links to one or more identity tables associated with distinct appearances determined for the known identity.

46. The database of claim 34, wherein the one or more identity tables further comprise one or more links corresponding to the one or more face class tables.

47. The database of claim 34, wherein the one or more face class tables comprises one or more of the previously determined value ranges of the one or more face classifier parameters.

48. The database of claim 47, wherein each value range is uniquely associated with an identified and user confirmed face region detected within an acquired digital image.